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(54) ORGANIC THIN-FILM EL ELEMENT

(57) Abstract:

PURPOSE: To provide an EL element having high brightness with low voltage and an excellent light emission efficiency by interposing a layer as a mixture of electric charge implanting material and an organic fluorescent substance between an electric charge implant layer and a light emitting layer.

CONSTITUTION: A clear electrode 2 consisting of ITO is formed on a glass plate 1, which is followed by formation of three layers one after another-i.e., a pos. consisting of implant layer N,N,N',N'-tetraphenyl-4,4'- diaminobyphenyl, a layer 4 as mixture of diamine and tris (8-hydroxyquinoline) aluminum as organic fluorescent substance in the proportion of 1:1, and a light emitting layer 5 using almi-quinoline. Finally a metal electrode 6 is formed by the electron beam evaporation method, and thus an organic thin film light emitting element is accomplished.

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